Abstract of the Disclosure

A method and system for error correcting C1/PI words using error locations detected by EFM/EFM+ decoder are provided. The method for channel decoding and error correcting includes: (a) setting up a channel code; (b) producing demodulated data including information data symbols and erasure flags by modulating channel data symbols, using the channel code; and (c) performing an error-erasure correction on the information data symbols of the demodulated data, using error locations indicated by the erasure flags. The system for channel decoding and error correcting includes a channel decoder with a channel code for producing the demodulated data having the information data symbols and the erasure flags by demodulating the channel data symbols, a memory for storing the demodulated data, and a decoding unit for performing an error-erasure correction on the information data symbols, using the error locations indicated by the erasure flags having a predetermined value.